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IMPLEMENTATION PLAN TO STOCKPILE SOIL AND DEBRIS FROM INFRASTRUCTURE PROJECTS

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT FERNALD, OHIO

OCTOBER 30, 2002

U.S. DEPARTMENT OF ENERGY
FERNALD AREA OFFICE

60500-PL-0003
REVISION 0
FINAL

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LIST OF ACRONYMS AND ABBREVIATIONS

AWWT	Advanced Waste Water Treatment Facility
FEMP	Fernald Environmental Management Project
H	Horizontal
OSDF	On-Site Disposal Facility
PWID	Project Waste Identification and Disposition Plan
SDFP	Soil and Disposal Facility Project
SP-8	Stockpile 8
TS	Temporary Structure
V	Vertical
WAC	waste acceptance criteria
WAO	Waste Acceptance Organization

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1.0 INTRODUCTION

1.1 Objectives

The objective of this plan is to establish a location and protocols for stockpiling excess soil and debris that are generated by infrastructure projects (i.e., Wise Services and site labor) at the Fernald Environmental Management Project (FEMP). While most of the soils from these activities can be backfilled or spread in place when the activity is complete, occasionally there are spoils that require interim staging pending final disposition. In general, analytical data from Remedial Investigations/Feasibility Studies or knowledge of past use of the affected areas indicates a high probability that the soils will meet waste acceptance criteria (WAC) for On-Site Disposal Facility (OSDF), pending confirmatory sampling. Providing a consolidated location for stockpiling the excess soil and debris facilitates implementation of proper environmental and WAC controls.

1.2 Scope

The scope of this plan is to site, construct and manage a stockpile that will contain primarily soil, with lesser amounts of debris. The plan addresses the proposed stockpile location, construction requirements, waste acceptance controls, and routine inspections and maintenance. The proposed stockpile will be referred to hereafter as Stockpile 8 (SP-8).

2.0 STOCKPILE LOCATION

The proposed location of SP-8 is in Area 7, north of the West Access Road, south of the Advanced Waste Water Treatment (AWWT) Facility, west of Temporary Structure TS-9, and east of the pine trees (see Figure 1).

3.0 STOCKPILE CONSTRUCTION

3.1 Site Preparation

Prior to stockpiling materials at the SP-8 location, the footprint shall be graded, and a gravel road constructed to access the pile. Yellow placards shall be placed on the fencing, which identify the stockpile name (SP-8), Material Tracking Location designation (AR5-003), WAC status (pending) and a Waste Acceptance Organization (WAO) contact name and telephone number.

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3.2 Material Placement

SP-8 shall be constructed with maximum slopes of 3H:1V and maximum height to base ratio of 0.2, with contouring and compaction completed as an integral component of soil placement. To the extent feasible, discrete debris items shall be segregated from soils and staged separately. A water mist shall be implemented during material placement, as necessary, to prevent fugitive dust.

Only soil and debris approved by WAO shall be staged at SP-8. Debris that exceeds OSDF size requirements shall be size reduced to comply with OSDF material Category 2, 3 or 4, if this can be accomplished with equipment available to the infrastructure project. In the event that adequate equipment is not available, WAO may approve staging of oversized debris at SP-8, to be sized reduced later by the Soil and Disposal Facility Project (SDFP) prior to transfer of the material to the OSDF. Any soil or debris material not approved by WAO for SP-8 placement shall be segregated at the project location and provided alternate disposition, in accordance with the Project Waste Identification and Disposition Plan (PWID).

3.3 Environmental Controls

Silt fencing shall be installed in conjunction with placement of initial soils, and expanded as additional materials are placed. During periods of inactivity, SP-8 shall be stabilized with an appropriate cover system (e.g., crusting agent, seed mix, tarp) as specified in Appendix F, Section F.7.1 of the Sitewide Excavation Plan (DOE 1998a) to prevent fugitive dust and erosion. The cover system shall be applied within seven calendar days of knowing that the pile will be inactive for 45 days or more.

4.0 WASTE ACCEPTANCE CONTROLS

4.1 Project Planning

Prior to startup of field activities that involve excavation, WAO shall review any existing analytical data and process knowledge for areas where soils will be disturbed. This information shall be utilized to select appropriate interim staging locations and final dispositions, and documented in the PWID as required by the WAC Attainment Plan for the OSDF (DOE 1998b). Generally, most soils that are disturbed by construction activities performed by infrastructure projects shall be designated in the PWID for backfilling or spreading in place (i.e., at the point of origin) when the project activity is complete. In cases where excess soils will be generated, only those anticipated to meet the OSDF WAC shall be designated in the PWID for staging at SP-8. The PWID shall identify alternate dispositions (e.g., Waste Pits Remedial Action Project) for the balance of the anticipated materials.

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4.2 Project Execution

During execution of field activities by infrastructure projects, WAO shall implement a daily walkthrough of the work area to verify that any interim staged material (e.g., pending backfilling) is appropriately sited and silt fence installed. Prior to transfer of any excess materials to SP-8, WAO shall perform a visual inspection to verify that there are no OSDF prohibited items (e.g., residues) or conditions (e.g., solvent saturated soils). WAO shall be present during loading of conveyances, and complete a Field Tracking Log that documents the transfer of the material from the source location to SP-8.

4.3 Disposition of SP-8

Prior to excavation of SP-8, the SDFP shall submit a sampling plan, associated analytical results, and an excavation plan to the Ohio Environmental Protection Agency for their approval. WAO shall oversee SDFP excavation of the pile, to confirm the absence of prohibited items or conditions. WAO shall ensure that the SDFP size reduces any oversized debris that they allowed infrastructure projects to stage at SP-8. Only materials confirmed to meet the OSDF WAC shall be transferred from SP-8 to the OSDF. WAO shall complete an OSDF Manifest for each load transferred to the OSDF.

5.0 INSPECTIONS AND MAINTENANCE

SP-8 shall be inspected during use as well as during inactive periods to verify the following:

- Perimeter fencing is intact and in good condition
- Stockpile signs are in place and legible
- The stockpile surface is appropriately contoured and compacted
- Silt fences are intact and functional
- The stockpile surface does not exhibit signs of erosion.

If deficiencies are identified, they shall be corrected in a timely manner, including but not limited to perimeter and silt fence repairs, replacement of signs, grading and contouring the stockpile surface, and applying crusting agent or other cover system. Deficiencies with environmental impacts (e.g., breached cover system) or that jeopardize the WAC pedigree (e.g., breached perimeter fencing) shall be identified as a high priority for immediate correction.

6.0 REFERENCES

U.S. Department of Energy, 1998a, "Sitewide Excavation Plan," Final, Fernald Environmental Management Project, DOE, Fernald Area Office, Cincinnati, Ohio.

U.S. Department of Energy, 1998b, "Waste Acceptance Criteria Attainment Plan for the On-Site Disposal Facility," Final, Fernald Environmental Management Project, DOE, Fernald Area Office, Cincinnati, Ohio.

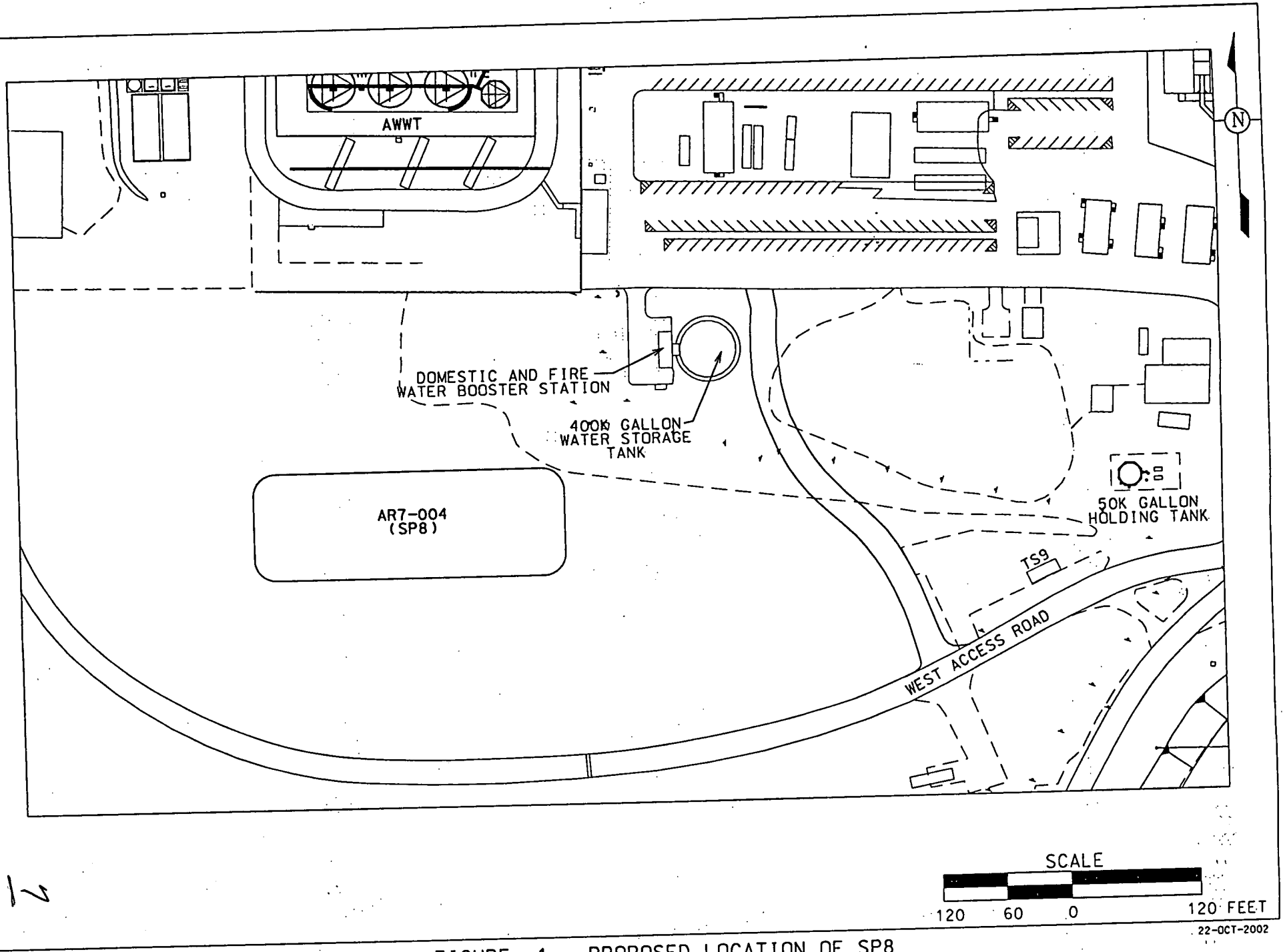

FIGURE 1. PROPOSED LOCATION OF SP8

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